



## OFFICE OF PUBLIC INSTRUCTION

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### Grade 3 Math Performance/Achievement Descriptors

<b>Advanced</b>	<p>Students at this level demonstrate a comprehensive and in-depth understanding of rigorous subject matter.</p> <ul style="list-style-type: none"><li>• Select and use multiple problem solving strategies to solve two-step problems involving the four operations and clearly communicate strategies</li><li>• Read, identify, and interpret place value of numbers to 9,999 and apply in problem solving situations</li><li>• Add and subtract numbers with multiple regroupings and estimate addition and subtract problems involving three-digit numbers</li><li>• Multiply and divide whole numbers with basic facts and interpret remainders in simple division situations</li><li>• Add and subtract simple fractions with common denominators</li><li>• Solve algebraic problems involving equations, number patterns, geometric patterns, and change and clearly communicate strategies</li><li>• Use properties and extensive vocabulary to describe and identify two- and three-dimensional figures</li><li>• Solve complex geometric problems involving coordinate systems, symmetry, transformations, visual and spatial reasoning and clearly communicate strategies</li><li>• Select and apply appropriate formulas, units, and tools to use in everyday measurement situations and perform simple conversions</li><li>• Collect, display, read, and interpret data in complex graphs and judge the probability of simple events</li></ul>
<b>Proficient</b>	<p>Students at this level demonstrate a solid understanding of challenging subject matter.</p> <ul style="list-style-type: none"><li>• Select and use problem-solving strategies to solve two-step problems involving the four operations and clearly communicate strategies</li><li>• Read, identify, and interpret place value of numbers to 9,999</li><li>• Add and subtract numbers with multiple regroupings and estimate addition and subtract problems involving two-digit numbers</li><li>• Multiply and divide whole numbers with basic facts</li><li>• Identify and write simple fractions</li><li>• Solve algebraic problems involving equations, number patterns, geometric patterns, and change</li><li>• Use properties and limited vocabulary to describe and identify two- and three-dimensional figures</li><li>• Solve geometric problems involving coordinate systems, symmetry, transformations, and visual and spatial reasoning</li><li>• Select and apply appropriate units and tools to use in everyday measurement situations and perform simple conversions</li><li>• Collect, display, read, and interpret data and judge the probability of simple events</li></ul>

<b>Nearing Proficiency</b>	<p>Students at this level demonstrate a partial understanding of subject matter</p> <ul style="list-style-type: none"> <li>• Select and use a problem-solving strategy to solve one-step problems involving the four operations and communicates strategies with limited organization or support information</li> <li>• Read and identify place value of numbers to 9,999</li> <li>• Add and subtract numbers with limited regrouping</li> <li>• Multiply and divide whole numbers using models</li> <li>• Identify and write simple fractions with models</li> <li>• Solve algebraic problems involving simple equations, number patterns, and geometric patterns</li> <li>• Name two- and three-dimensional figures and recognize the results of subdividing and combining shapes</li> <li>• Recognize symmetric figures, transformations, shapes from different perspectives, use simple vocabulary to describe direction and position on a grid, and solve geometric problems involving visual and spatial reasoning</li> <li>• Select and apply appropriate units and tools to use in everyday measurement situations</li> <li>• Display, read, and interpret data</li> </ul>
<b>Novice</b>	<p>Students at this level demonstrate a minimal understanding of subject matter.</p> <ul style="list-style-type: none"> <li>• Solve simple one-step problems involving the four operations with models and communicates strategies without organization or support information</li> <li>• Read and identify place value of numbers using models</li> <li>• Add and subtract numbers involving basic facts</li> <li>• Relate multiplication and division to pictorial models of the operations</li> <li>• Recognize and explore meaning of fractions</li> <li>• Solve problems involving simple number and geometric patterns</li> <li>• Recognize and name basic two- and three- dimensional figures and recognize figures that have the same size and shape</li> <li>• Recognize symmetric figures and use simple vocabulary to describe direction and position on a grid</li> <li>• Select appropriate units and tools to use in everyday measurement situations</li> <li>• Display, read, and interpret data in simple graphs</li> </ul>